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[ABSTRACT]

PURPOSE: To enhance weighing accuracy and to smooth operation, by inserting an automatic opening and closing valve and a bellow in the vicinity of the bottom part of a weighing tank of an arranged pipe which extends from the bottom part of the weighing tank to a regenerator while arranging weighing instruments to three or more places of the side wall of the weighing tank. CONSTITUTION: when a flow control valve 5 and a closing valve 6 are brought to a full-open state, the catalyst 20 in a hopper 1 is flowed down to a weighing tank 2 through an arranged pipe 30 and the wt. of the catalyst is calculated as the sum measured value of weighing instruments 12a, 12b, 12c each using a piezoelectric element. This measured value is sent to a control apparatus 13 and, at the point of time when the catalyst wt. reaches an objective value, the flow control valve 5 and the closing valve 6 are closed. After accurate weighing is confirmed, valves 11, 9 are successively opened to transfer the catalyst in the weighing tank 2 to a regenerator and, for example, after the transfer time within 30sec is elapsed, the valves 9, 11 are closed. COPYRIGHT: (C)1984, JPO&Japio